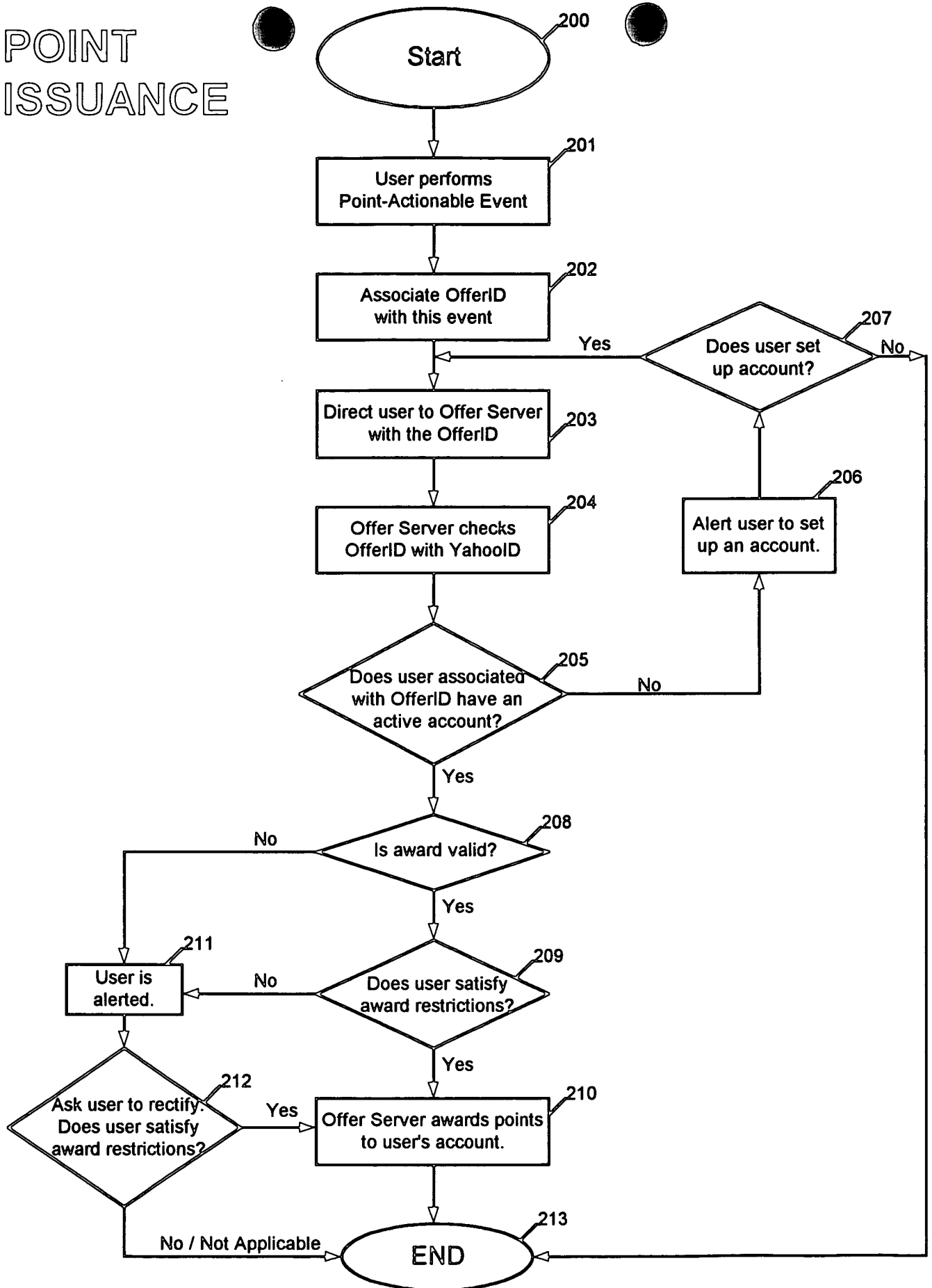


FIG. 2

POINT ISSUANCE



STANDARD AUCTION - SINGLE ITEM

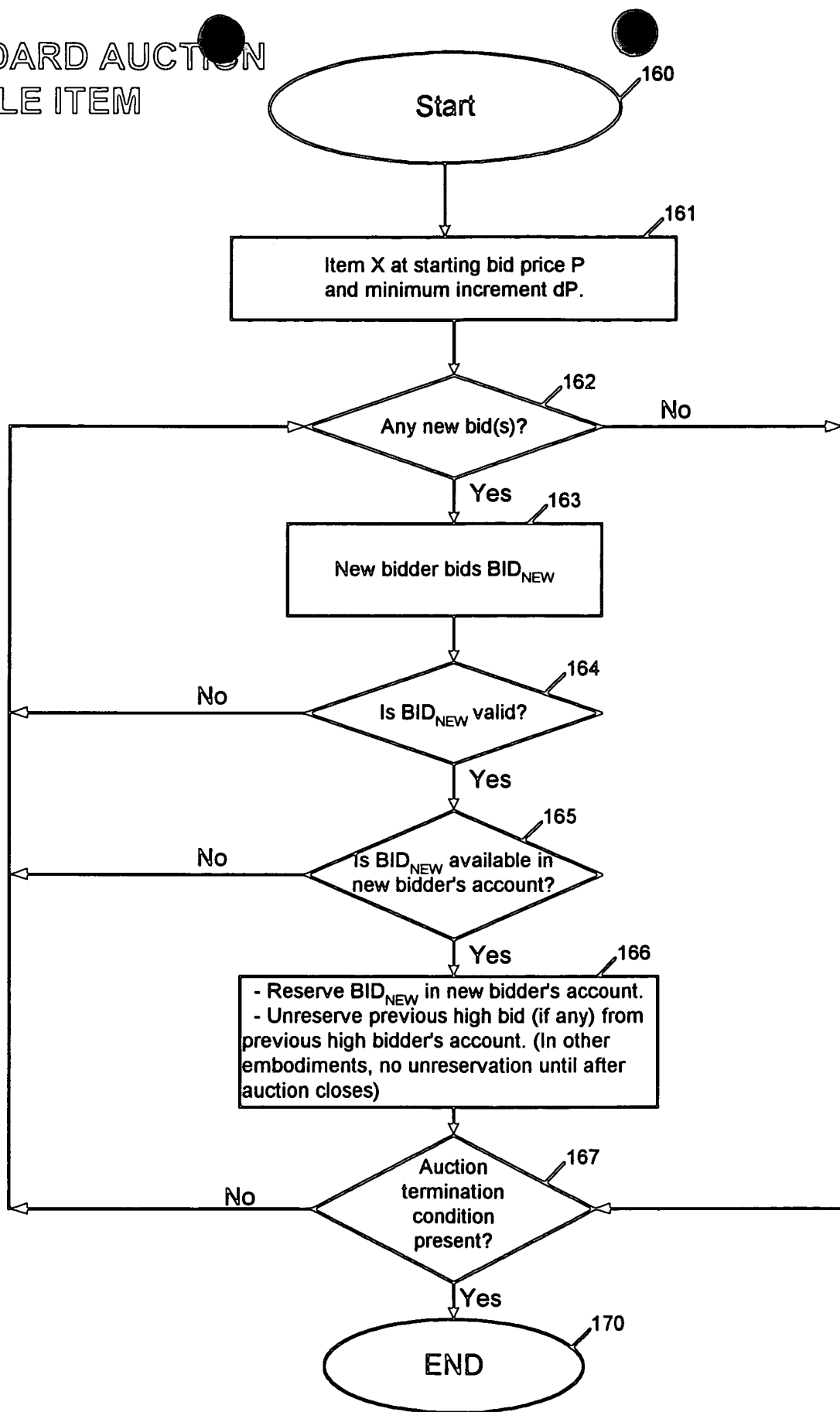


FIG. 4

STANDARD AUCTION - MULTIPLE ITEMS

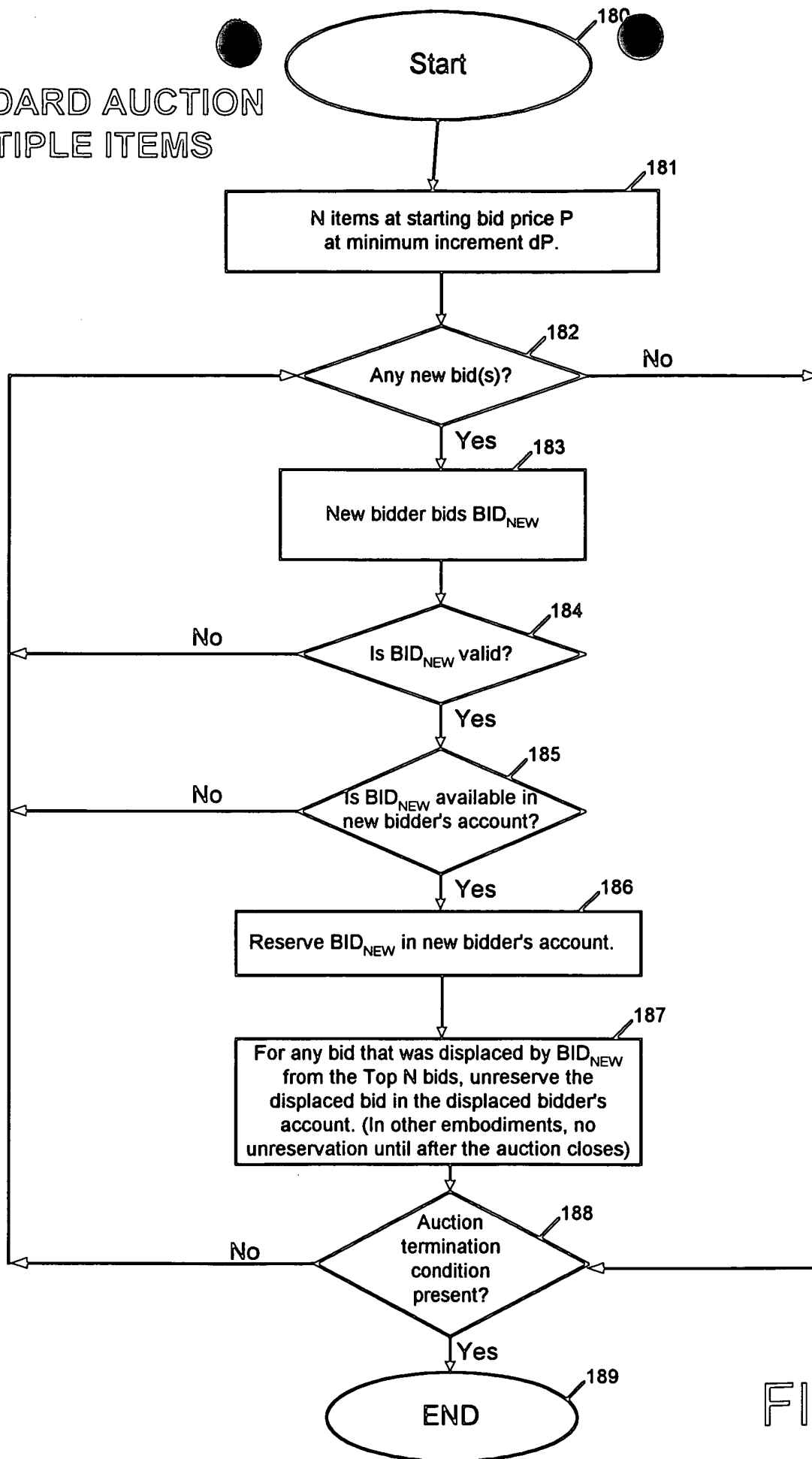


FIG. 5

DUTCH AUCTION -FIRST EMBODIMENT

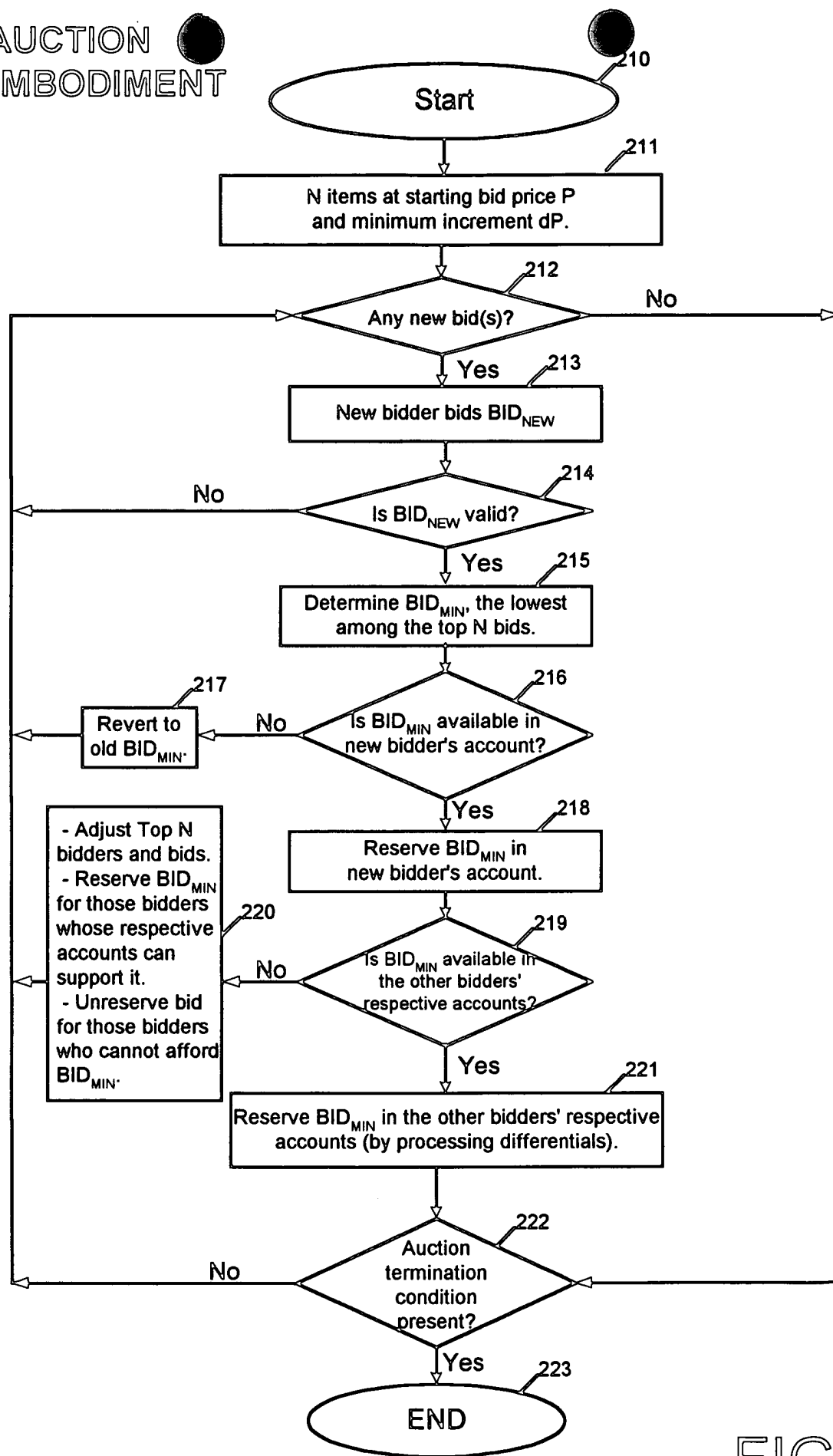


FIG. 6

DUTCH AUCTION - SECOND EMBODIMENT

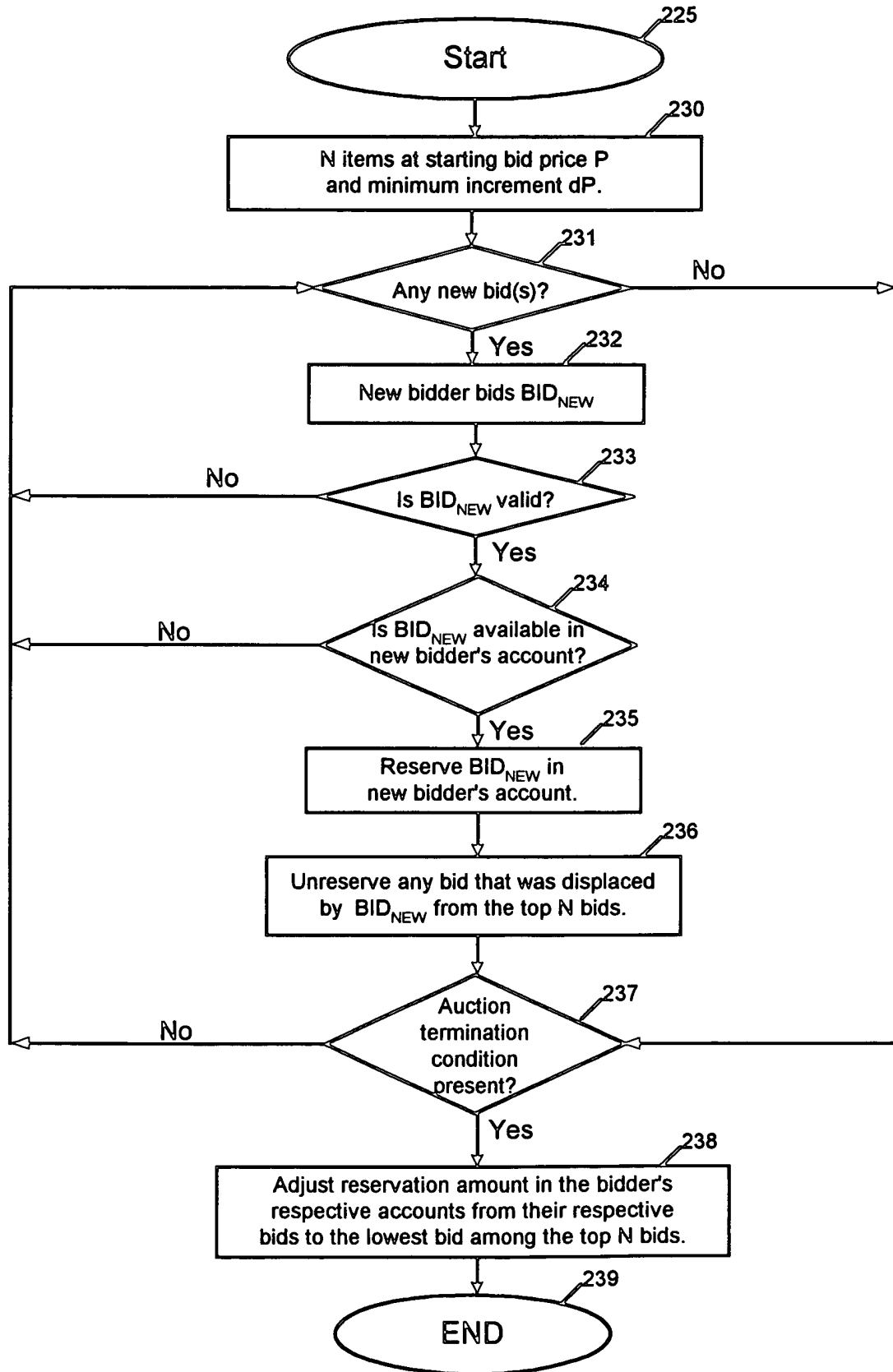


FIG. 7

PROGRESSIVE AUCTION

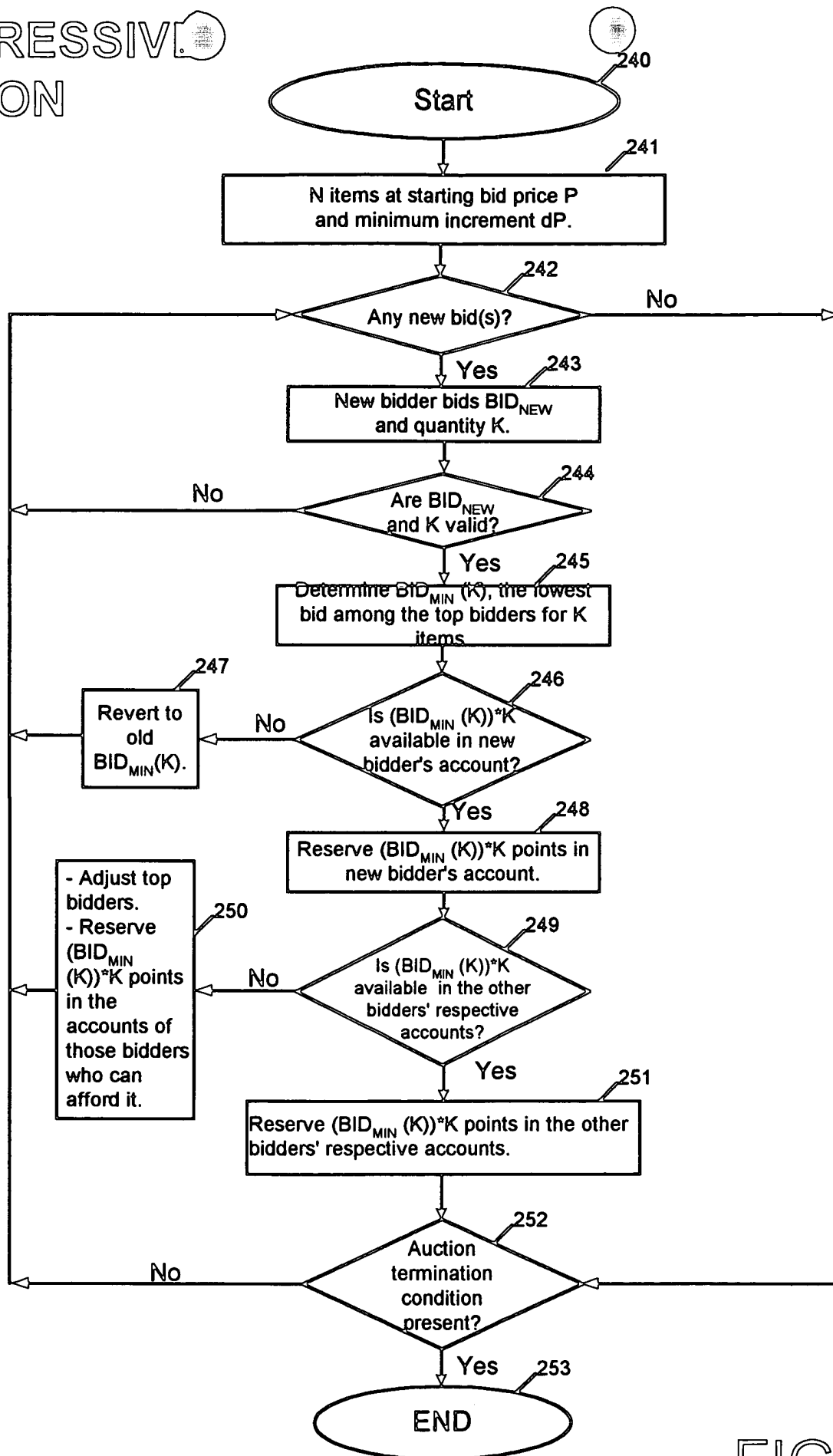


FIG. 8

BUY OR BID AUCTION

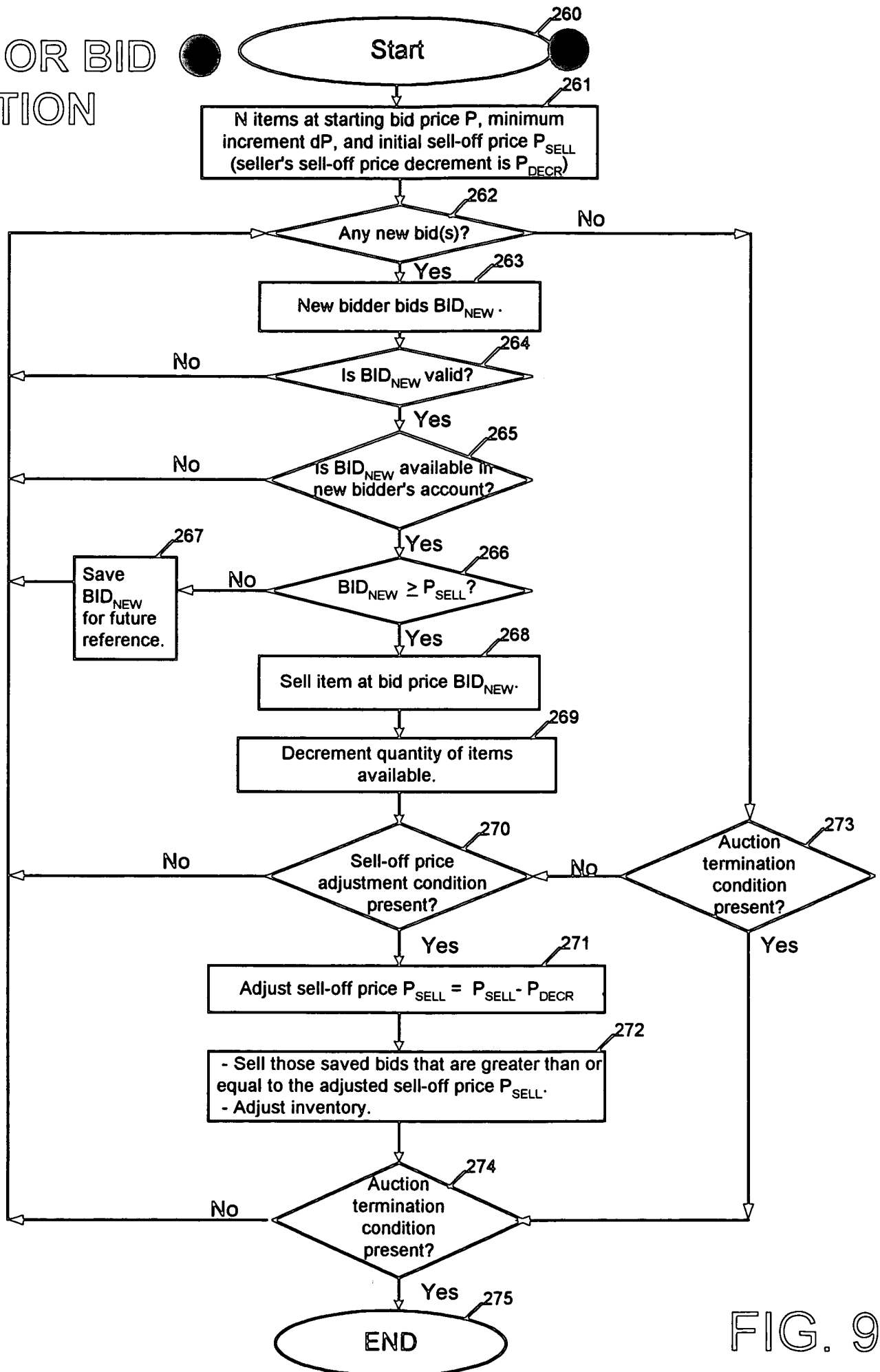


FIG. 9

AUTOMATED BIDDER

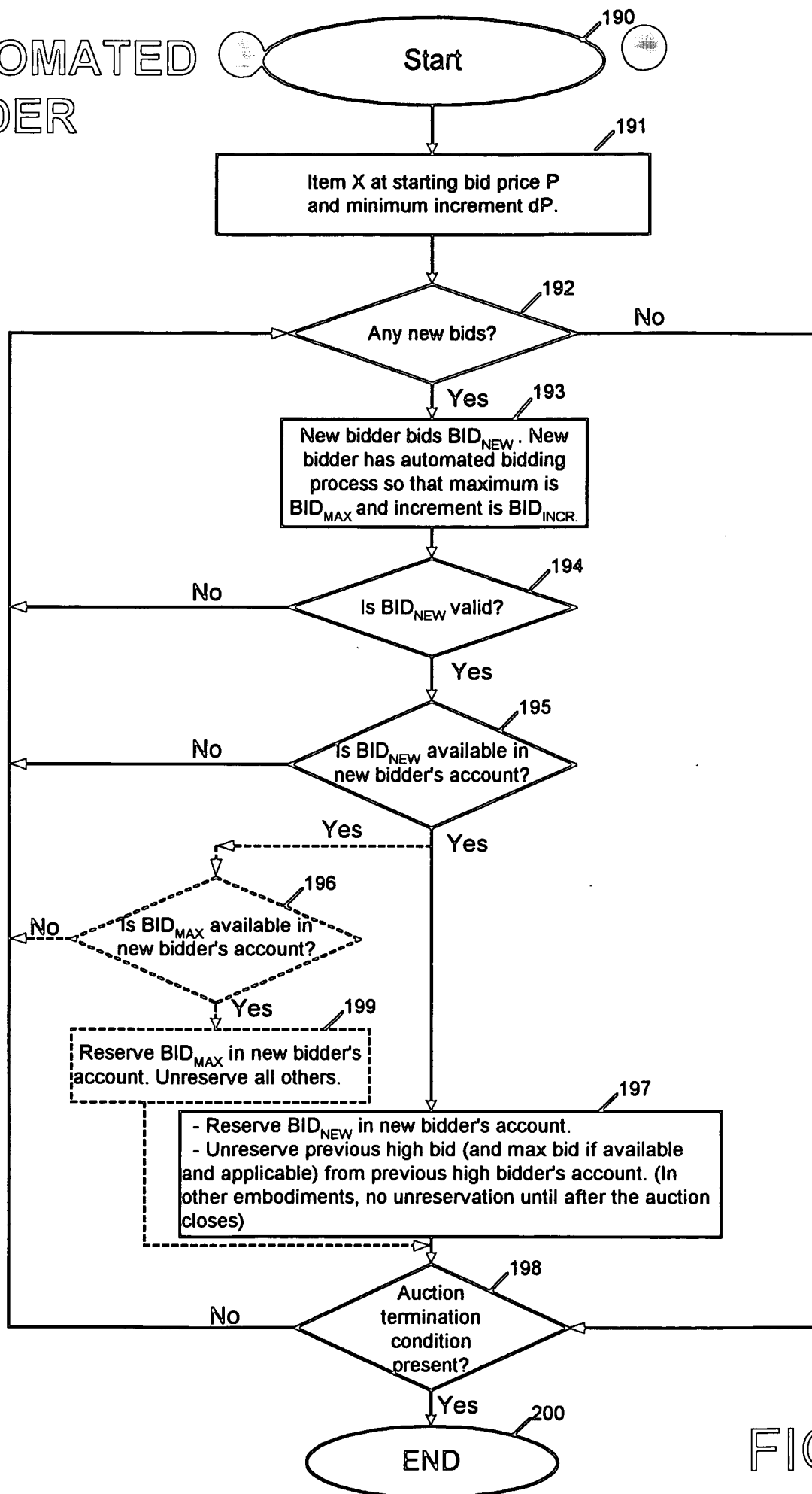


FIG. 10

DECLINING BID AUCTION

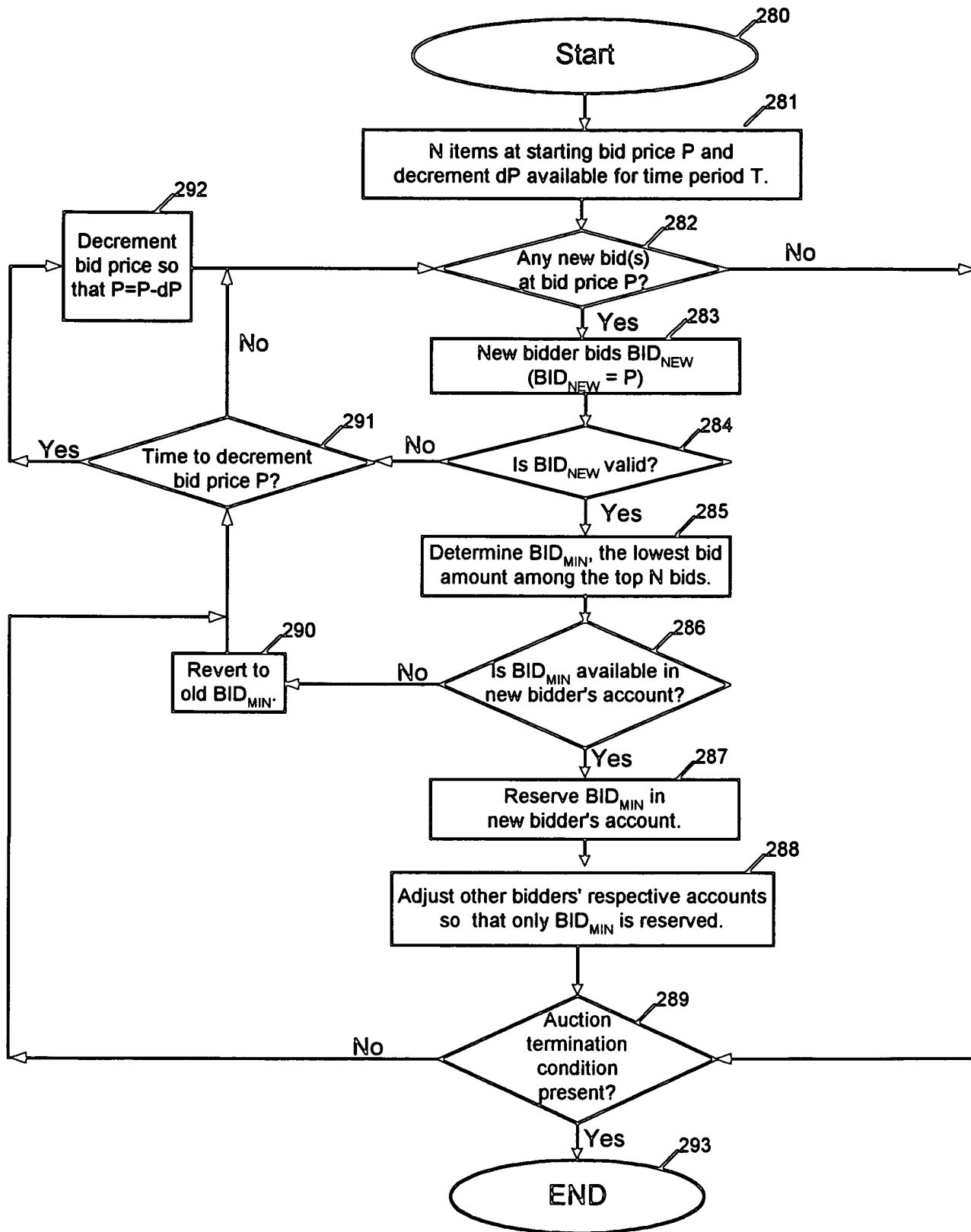


FIG. 11

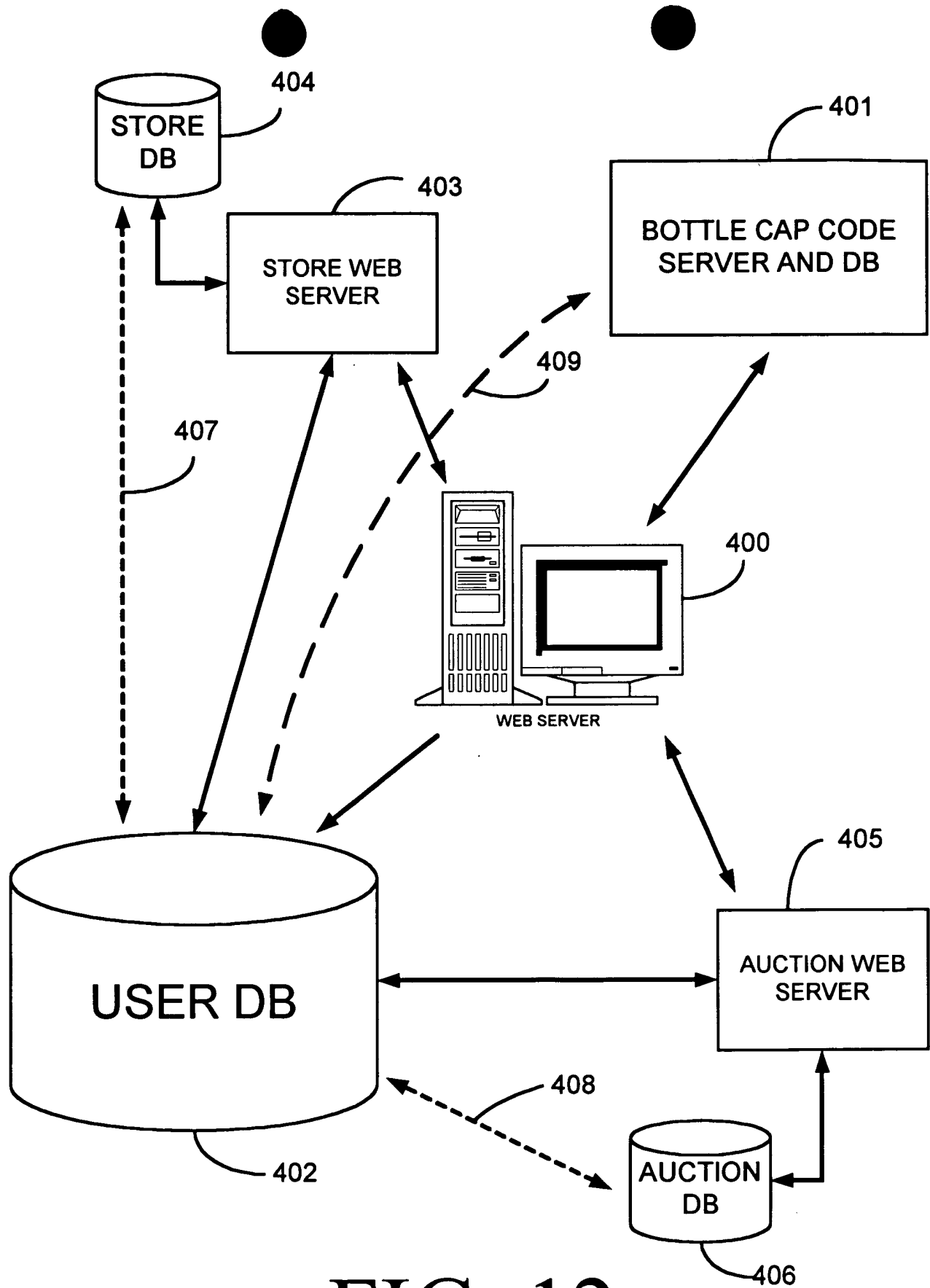


FIG. 12

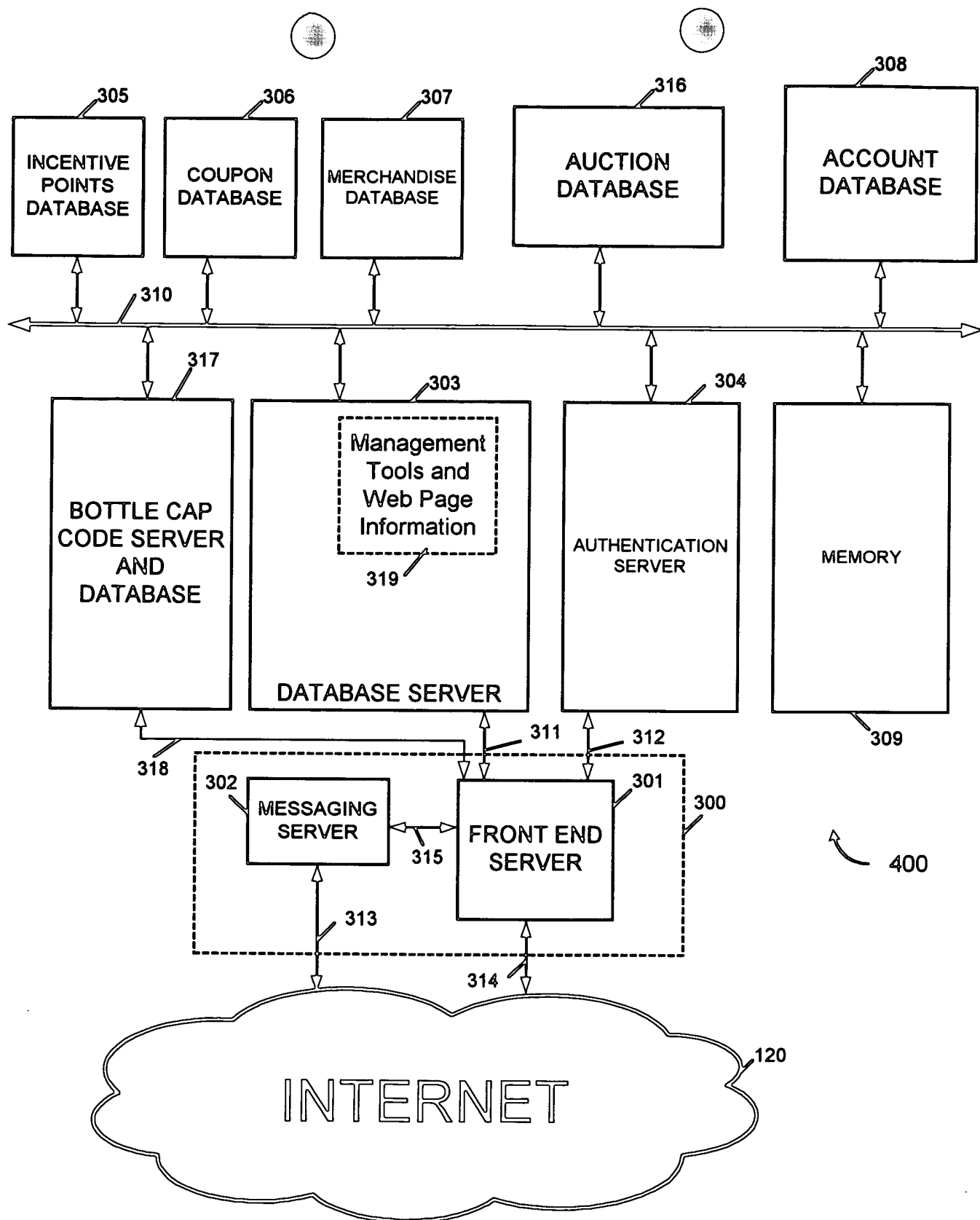


FIG. 13

WEB BROWSER

XYZ CORP BOTTLE CAPS POINTS PROGRAM

CLOTHES	TOYS	ENTER CODE
MOVIES	MUSIC	
TRAVEL	ELECTRONICS	VIEW ACCOUNT

FIG. 14(A)

WEB BROWSER

XYZ CORP BOTTLE CAPS POINTS PROGRAM

Please enter the 10-digit
code on the bottle cap:

SUBMIT

RETURN TO
PREVIOUS PAGE

FIG. 14(B)

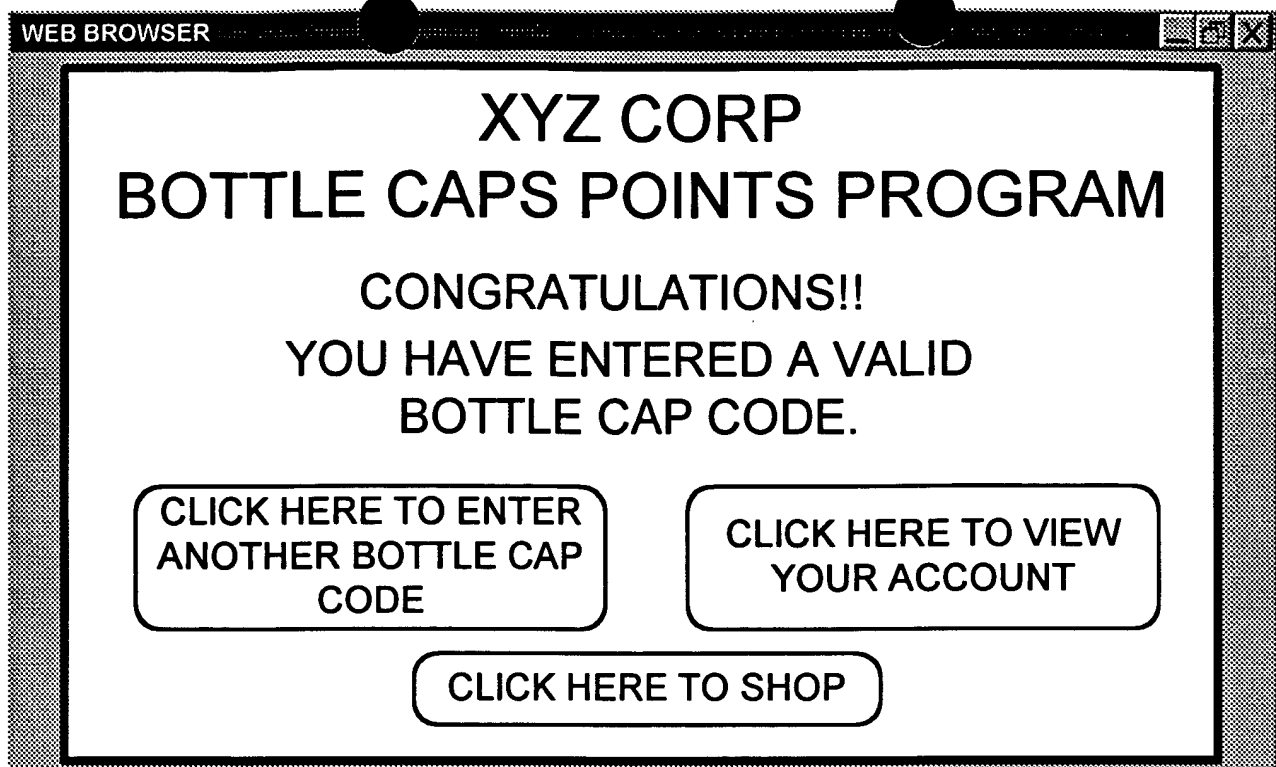


FIG. 14(C)

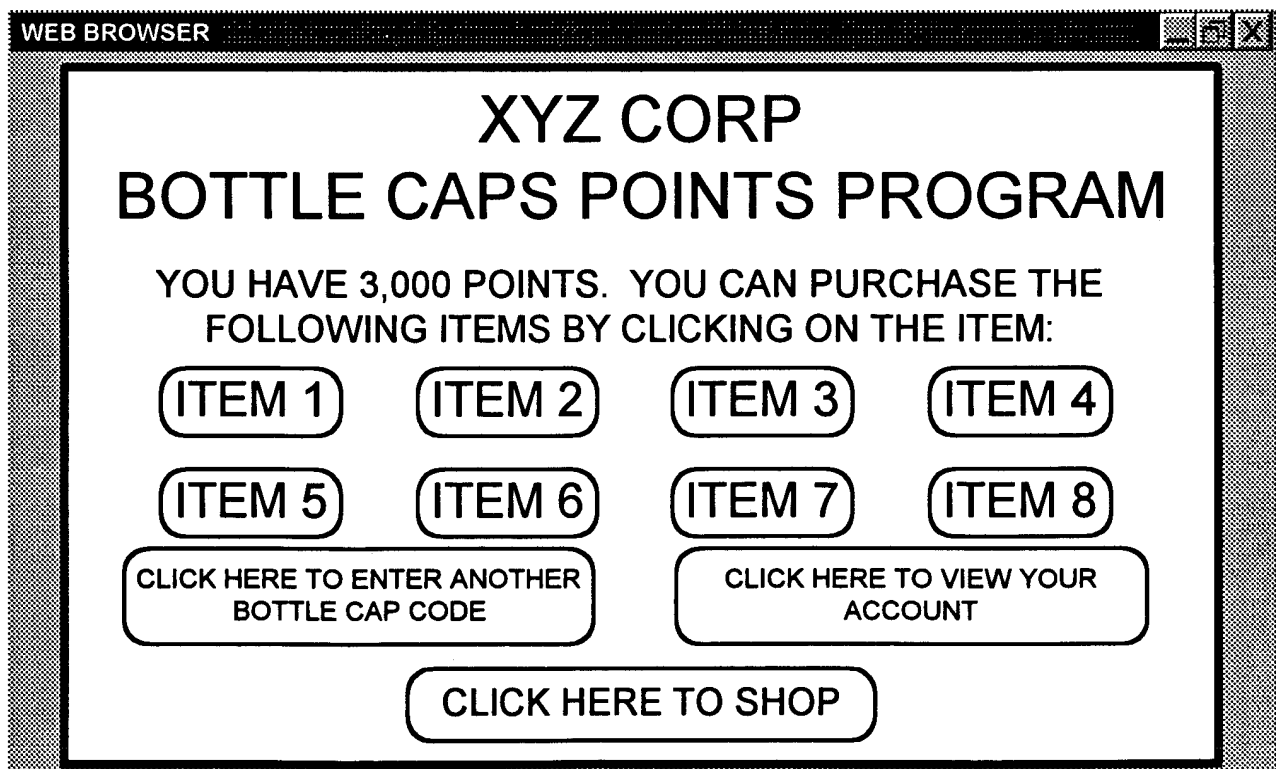


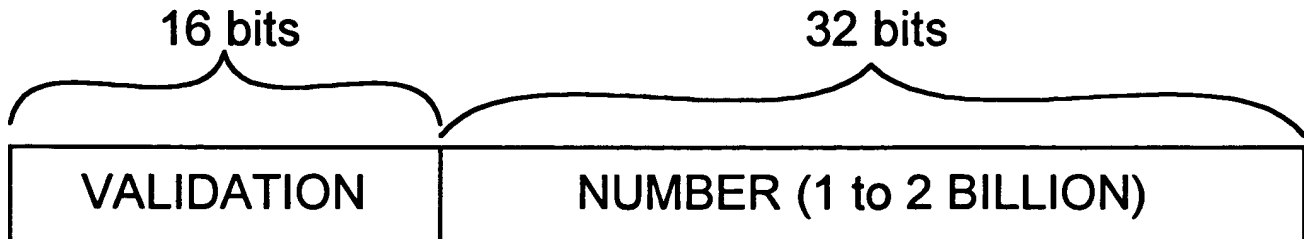
FIG. 14(D)

XYZ CORP			
BOTTLE CAPS POINTS PROGRAM			
YOU HAVE 3,000 POINTS. HERE ARE THE ITEMS THAT ARE AVAILABLE FOR PURCHASE/BID:			
STORE GOODS	SALE POINTS	AUCTION POINTS	COUPONS
ITEM 1	500		50 PTS
ITEM 2	750	610	75 PTS
ITEM 3	1,200	960	100 PTS
ITEM 4	2,800		
ACCOUNT	BOTTLE CAP CODE		SHOP

FIG. 14(E)

ENCIPHERMENT

S1 = 48-bit STRING:



$S2 = \text{KEY1 (128 bits)} + \text{NUMBER (32 bits)}$

$S3 = \text{MD5}(S2)$

VALIDATION string = take first 16 MSB of S3

$S4 = \text{DES3}(S1, \text{KEY2})$

$S4_{\text{BASE 29}} = 10\text{-DIGIT BOTTLE CAP CODE}$

FIG. 15

VERIFICATION

$S4_{\text{BASE } 29} = 10\text{-DIGIT BOTTLE CAP CODE}$

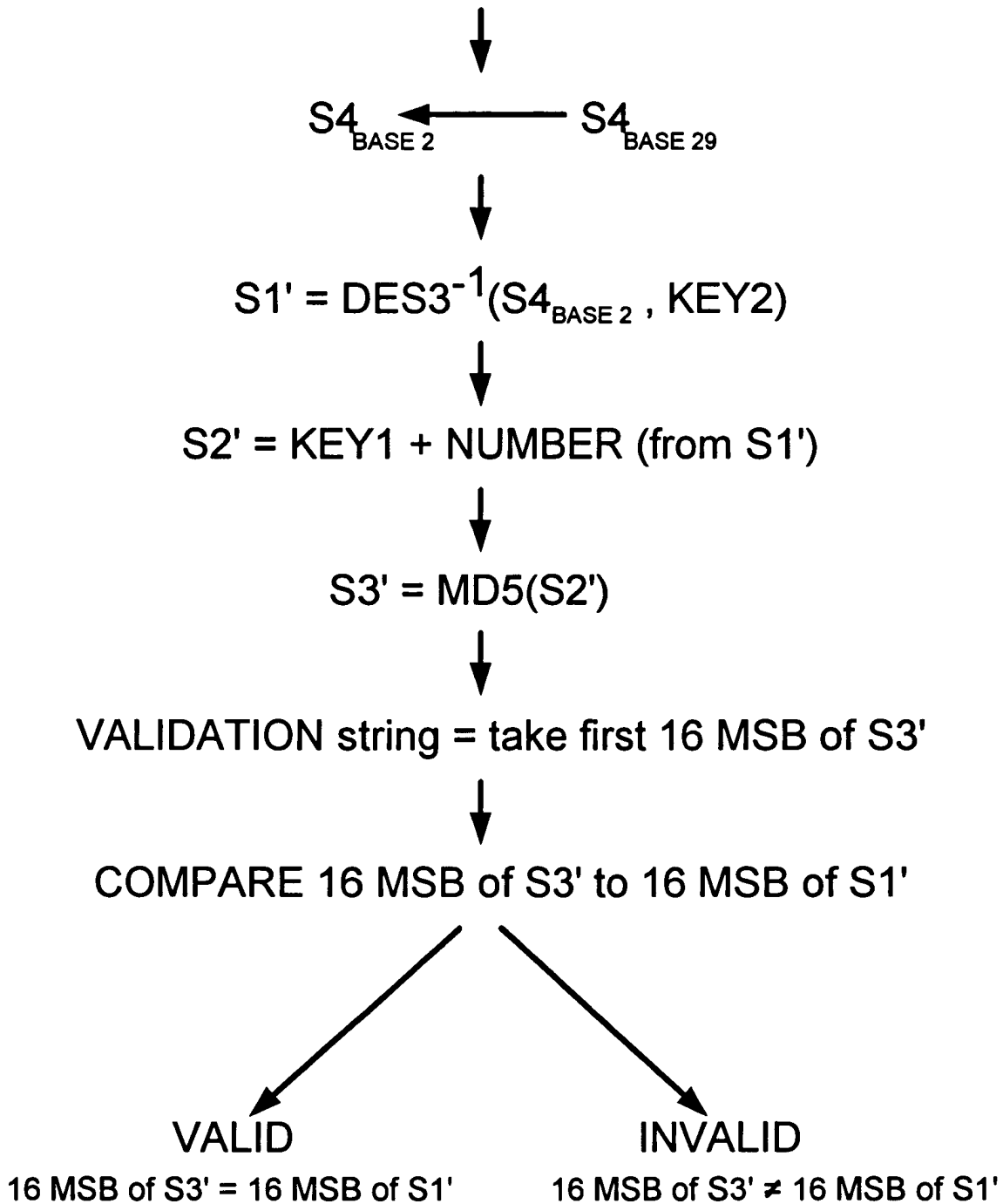


FIG. 16

Verification	
Number	Flag
1	0
2	0
3	1
4	0
1,999,999,998	0
1,999,999,999	0
2,000,000,000	1

FIG. 17